

**DuPont Pompton Lakes  
Vapor Intrusion Mitigation System Inspection Checklist**

**Address inspected:** \_\_\_\_\_ Pompton Lakes, NJ

**Person(s) interviewed:** \_\_\_\_\_

**Date of inspection:** \_\_\_\_\_ **Time of inspection:** \_\_\_\_\_ to \_\_\_\_\_

**Inspector(s):** \_\_\_\_\_

**Make and Model of Fan** \_\_\_\_\_

**Date System Installed** \_\_\_\_\_

System Pressures	SSP-1	SSP-2
Observed Vacuum Pressure		
Commissioned Vacuum Pressure		
Difference		

**1.0 Systems Installation and Interior Piping Requirements**

**Yes    No    Unk / NA**

1.1 Are all manifold and suction point piping solid, rigid pipe not less than 3 in. inside diameter? \_\_\_\_\_

1.2 Are all pipe interior joints and connections in mitigation systems sealed permanently?  
(Exceptions include installation of fans and sump covers) \_\_\_\_\_

1.3 Does the system piping avoid attachment to or support by existing pipes, ducts, conduits  
or any kind of equipment? \_\_\_\_\_

1.4 Does the system piping avoid blocking window and doors or access to installed equipment? \_\_\_\_\_

1.5 Are supports for system piping installed at least every six (6) feet on horizontal runs? \_\_\_\_\_

1.6 Are vertical runs secured above or below the points of penetration through floors, ceilings  
and roofs, or at least every (8) feet on runs that do not penetrate floors, ceilings or roofs? \_\_\_\_\_

1.7 Are suction point pipes supported and secured in a permanent manner that prevents their  
downward movement to the bottom of suction pits or sump pits, or into the soil beneath  
a soil-gas-retarder membrane? \_\_\_\_\_

1.8 Are horizontal runs in system piping sloped to ensure that water from rain or condensation  
drains downward into the ground beneath the slab or soil-gas-retarder membrane? \_\_\_\_\_

1.9 Does the system piping pass the smoke stick check (no leaks)? \_\_\_\_\_

**2.0 General Sealing Requirements**

2.1 Are openings around the suction point piping penetrations of the slab properly sealed using  
methods and materials that are permanent \ durable and pass the smoke stick check? \_\_\_\_\_

2.2 Are accessible openings around utility penetrations of the foundation walls and slab, test  
holes, wells and other openings in slabs properly sealed using methods and materials that are  
permanent / durable and pass the smoke stick check? \_\_\_\_\_

	Yes	No	Unk/NA
2.3 Are openings / cracks sealed where the slab meets the foundation wall (if appropriate)?	___	___	___
2.4 At the point where vent pipe and electric conduit exits the building, is urethane caulk or equivalent material used, and when the joint is greater than ½ inch in width, is a foam backer rod or other comparable filler material inserted into the joint before the application of the sealant (principally from the outside)?	___	___	___
2.5 When installing baseboard-type suction systems, are all baseboard sealed to walls and floors with adhesives also designed and recommended for such installations?	___	___	___
2.6 Are all utility and other penetrations through a soil-gas-retarder membrane sealed?	___	___	___
2.7 Did all cracks or openings in the slab or wall pass the smoke test? If not, identify the location of failed cracks or openings in the Notes & Comments Section below.	___	___	___

**3.0 Electrical Requirements**

3.1 Is the plugged cord used to supply power to the fan no more than 6 feet in length?	___	___	___
3.2 Does the plugged cord avoid penetrating a wall or being sealed within a wall?	___	___	___
3.3 Is the power supply to the fan hard-wired with an electrical disconnect within line of sight and 4 feet of the fan?	___	___	___
3.4 Does the power supply have a seal to determine if access has occurred?	___	___	___
3.5 Is the electrical service panel labeled to indicate the circuit breaker powering the SSDS fan?	___	___	___

**4.0 Sub-Membrane Depressurization Requirements**

4.1 Is a sub-membrane depressurization system part of the mitigation system?	___	___	___
4.2 If yes, did the sub-membrane depressurization system pass the smoke test?	___	___	___

**5.0 Sump Pit Requirements**

5.1 Is there a sump pit in basement?	___	___	___
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If yes:

5.2 Is the sump pit installed with an impermeable cover and sealed with O-ring or silicone caulking?	___	___	___
5.3 Is the sump pit cover designed to facilitate removal for sump pit maintenance?	___	___	___
5.4 Is there a mitigation system designed to draw soil-gas from the sump pit?	___	___	___

**6.0 Monitors and Labeling Requirements**

6.1 Does each suction point have a mechanism to measure vacuum?	___	___	___
6.2 Is the mechanical mitigation system's monitor, such as manometer type pressure gauges, clearly marked to indicate the initial pressure readings?	___	___	___

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Inspector's Name:

	Yes	No	Unk/NA
6.3 Is the current vacuum reading within 0.25" water of the initial reading for low vacuum fans and within 5% of the commissioned vacuum for high vacuum fans?	_____	_____	_____
6.4 Is a system description label placed on the mitigation system or other prominent location?	_____	_____	_____
6.5 Is the label legible from a distance of at least three feet and does it display the following information: Purpose of the system ("Vapor Intrusion Mitigation"), name and phone number of the contact person.	_____	_____	_____
6.6 Does the mitigation system prevent backdrafting of combustion products into the structure?	_____	_____	_____
6.7 Were air measurements taken using a DRI with a CO detector?	_____	_____	_____
If yes:			
6.7.1 Type of instrument used: _____			
6.7.2 Concentration of CO in basement: _____ ppm.			
6.8 Were the vacuum readings in the system stable during the backdraft test?	_____	_____	_____
6.9 Does the mitigation system include an audible alarm to inform occupants of a system malfunction?	_____	_____	_____
6.10 Is the audible alarm operational?	_____	_____	_____

**7.0 System Vent Discharge Point Requirements**

7.1 Is the vent pipe vertical and upward, outside the structure, at least 10 feet above ground level, and above the edge of the roof? <b>(Req. A)</b>	_____	_____	_____
7.2 Is the discharge of the vent pipe ten feet or more away from any window, door, or other opening into conditioned or otherwise occupiable spaces of the structure, if the vapor discharge point is not at least 2 feet above the top of such openings? <b>(Req. B)</b>	_____	_____	_____
7.3 Is the discharge of the vent pipe ten feet or more away from any opening into the conditioned or other occupiable spaces of an adjacent building? Chimney flues shall be considered openings. <b>(Req. C)</b>	_____	_____	_____
7.4 For vent stack pipes that penetrate the roof, is the point of discharge at least 12 in. above the surface of the roof? <b>(Req. D)</b>	_____	_____	_____
7.5 For vent stack pipes attached to or penetrating the sides of the buildings, is the point of discharge vertical and a minimum of 12 inches above the surface of the roof.	_____	_____	_____
7.6 Does the horizontal run of vent stack pipe penetrate the gable end walls? <b>(Req. E)</b>	_____	_____	_____
7.7 If yes, does the piping outside the structure routed to a vertical position so that the discharge point meets the requirements of <b>(A)</b> , <b>(B)</b> , <b>(C)</b> , and <b>(D)</b> ?	_____	_____	_____
7.8 Do points of discharge that are not in a direct line of sight from openings into conditioned or otherwise occupiable space because of intervening objects, such as dormers, chimneys, windows around the corner, etc. meet the separation requirements of <b>(A)</b> , <b>(B)</b> , <b>(C)</b> , <b>(D)</b> and <b>(E)</b> ?	_____	_____	_____

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	Yes	No	Unk/NA
7.9 Is the outside vent piping fastened to the structure of the building with hangers, strapping or other supports that will secure it adequately (every 8 feet)?	_____	_____	_____
7.10 Is vent stack piping's ID at least as large as the largest used in the manifold piping? Manifold piping to which two or more suction points are connected shall be at least 4 inch ID. (3x4 inch aluminum downspout is an acceptable deviation)	_____	_____	_____
7.11 If system piping is installed on the exterior of a building, is piping and electric conduit sealed from the outside at point of entry to the building?	_____	_____	_____

**8.0 Fan Installation Requirements**

8.1 Is the fan installed in a configuration that avoids condensation buildup in the fan housing?	_____	_____	_____
8.2 Is the fan mounted on the exterior of buildings rated for outdoor use or installed in a weather proof protective housing?	_____	_____	_____
8.3 Is the fan mounted and secured in a manner that minimizes transfer of vibration to the structural framing of the building?	_____	_____	_____
8.4 Does the system operate without noise or vibration above normal conditions?	_____	_____	_____

**9.0 Design Drawing and As-Built Drawing Requirements**

9.1 Was the system installed as per the design drawings submitted to the municipality?	_____	_____	_____
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**10.0 Notes & Comments**

**11.0 Required Corrective Actions**

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Homeowner Address

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